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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,852	12/01/2003	01/2003 Patricia Ann Piers		2156
31518 NEIFELD IP L	7590 10/31/200 <b>AW. PC</b>	EXAMINER		
	HOWER AVENUE	MATTHEWS, WILLIAM H		
ALEXANDRIA	A, VA 22304		ART UNIT	PAPER NUMBER
			3774	
			NOTIFICATION DATE	DELIVERY MODE
			10/31/2008	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

general@neifeld.com rneifeld@neifeld.com rhahl@neifeld.com

Office Action Summary		Applicat	on No.	Applicant(s)			
		10/724,8	52	PIERS ET AL.			
		Examine	r	Art Unit			
		William H	l. Matthews (Howie)	3774			
The MAILIN Period for Reply	IG DATE of this communi	cation appears on th	e cover sheet with the	correspondence a	ddress		
A SHORTENED S WHICHEVER IS L - Extensions of time may after SIX (6) MONTHS - If NO period for reply is - Failure to reply within the Any reply received by the	TATUTORY PERIOD FOO ONGER, FROM THE MA be available under the provisions of from the mailing date of this comm specified above, the maximum state as eset or extended period for reply of the Office later than three months and sustment. See 37 CFR 1.704(b).	AILING DATE OF T of 37 CFR 1.136(a). In no er unication. tutory period will apply and w vill, by statute, cause the ap	HIS COMMUNICATIC vent, however, may a reply be to vill expire SIX (6) MONTHS from plication to become ABANDON	DN. timely filed m the mailing date of this IED (35 U.S.C. § 133).			
Status							
2a)⊠ This action i 3)⊡ Since this a	to communication(s) filed s <b>FINAL</b> . 2 oplication is in condition for cordance with the practic	b) This action is i or allowance excep	t for formal matters, p		e merits is		
Disposition of Claim	S						
<ul> <li>4) ☐ Claim(s) 216,219-234,236,238-244,246,249-255,257-263 and 265-272 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) 216,219-234,236,238-244,246,249-255,257-263 and 265-272 is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Application Papers							
10) The drawing Applicant may Replacement	ation is objected to by the (s) filed on is/are:  not request that any objected to drawing sheet(s) including declaration is objected to	a) accepted or b tion to the drawing(s) the correction is requi	be held in abeyance. Se red if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 C			
Priority under 35 U.S	.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
	n's Patent Drawing Review (P <sup>-</sup> e Statement(s) (PTO/SB/08)	ГО-948)	4) Interview Summar Paper No(s)/Mail [ 5) Notice of Informal 6) Other:	Date			

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### **DETAILED ACTION**

# Response to Arguments

1. Applicant's arguments with respect to claims 216,219-234,236,238-244,246,249-255,257-263, and 265-272 have been considered but are moot in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 216,219,220,222,225-228,233,234,236,238-244,246,250,253-255,257-263,265,266,269, and 270 are rejected under 35 U.S.C. 102(b) as being anticipated by Kosoburd et al (US 5,760,871). Kosoburd discloses a multifocal intraocular lens comprising diffractive and aspheric portions (see col. 6 lines 20-37, columns 15-16, and figures 4B-4C). The diffractive and aspheric portions may be on the posterior and/or anterior surface. As the portions may be on opposing sides, the distribution of light would be 50:50. The limitations regarding the Zernike polynomials and the lens being characterized by conical equations are inherently met because the Zernike polynomials describe spherical aberrations which are reduced and figure 4C show a partially conical shape which may be described by such equations.

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4. Claims 216,219,220,221-225, 227-230, 233, 236,238-244, 246,249-253,257,259-263,265,266,269, and 270 are rejected under 35 U.S.C. 102(b) as being anticipated by Lieberman (US 5,800,532). In reference to Figure 7A Lieberman discloses a multifocal intraocular lens 34 comprising a first surface 58 and a second surface 50 wherein the first surface has a first shape and the second surface has a second shape. Furthermore, Lieberman discloses that the IOL (34) can be a toric (aspherical) shape (col. 8, lines 49-67) wherein portion 42 comprises a diffractive pattern (col. 8, lines 45-48) and provides an additional focus to the base focus of the lens (col. 7, lines 18-24) wherein the base focus is 18 diopters (col. 7, lines 50-53) and the additional focus may exceed the base focus by 3 or more diopters (col. 7 lines 45-50). Furthermore, Lieberman discloses an additional focus area which can be greater that 90 degrees, which would occupy more than 30% of the light distribution (col. 7, lines 35-46).

# Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 6. Claims 231 and 232 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lieberman (US 5,800,532).
- 7. Lieberman discloses an IOL as provided *supra* however Lieberman does not provide the exact thickness of 1.1 millimeters or first and second surfaces

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comprising radii of curvature between 12 and 13 millimeters. However, Lieberman does disclose "the relative power and extent (e.g. diameter) of the body portion 52 is chosen based on individual patient considerations, as well known in the art"(col. 6, lines 61-64). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to utilize a thickness of 1.1 millimeters and a first and second surfaces comprising radii of curvature between 12 and 13 millimeters when required by patient needs. The rationale for making the combination being that it would be obvious to try the claimed dimensions within the IOL of Lieberman because the dimensions are compatible with use within a human eye.

- 8. Claims 221,223-224, 229-232,249, and 251-252 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kosoburd et al.(US 5,760,871).
- 9. Kosoburd discloses an IOL as provided *supra* however Kosoburd does not provide the exact dimensions, materials, or powers. However, Kosoburd does disclose the lens to be designed based on individual patient considerations. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the specific materials, dimensions, and powers as claimed because these would be well-known design considerations in the art of ophthalmology. The rationale for making the modifications being that it would be obvious to try the claimed dimensions within the IOL of Kosoburd because the dimensions are compatible with use within a human eye.

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# Claim Rejections - 35 USC § 112

10. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

11. Claims 266,267,268,270,271, and 272 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claims recite "average cornea" or "average eye model" which are indefinite because "average" is not defined in scope within the specification, or define a "modulation transfer function" that is a number (e.g. 0.2 or 0.4) which is indefinite because it is unclear how a function is a number.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Matthews (Howie) whose telephone number is 571-272-4753. The examiner can normally be reached on Monday-Friday 10-6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Isabella can be reached on 571-272-4749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/William H. Matthews/ Primary Examiner Art Unit 3774